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EXAMINER

KENDALL, CHUCK O

ART UNIT PAPER NUMBER

2122

DATE MAILED: 06/19/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/449,021

Applicant(s)

EMMELMANN, HELMUT

Examiner

Chuck O Kendall

Art Unit

2122

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 April 2002.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) _____ is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-127 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Examiners Response

This Office Action is the response to the communication received on 4/2/02 Amendment under 37 CFR § 1.111. Reconsideration of the instant application is requested by applicants. All such supporting documentation has been placed of record in the file.

Claims 1-127 are pending in this application.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1-34, 41-43 are rejected under 35 U.S.C. 102(a) as being anticipated by Massena.

Claims

1. A software development system for applications that run on a data network which couples a server computer and a client computer, wherein the client computer runs a browser program, comprising
a page generator capable of generating functional application pages with additional editing features for interpretation by the browser program [fig

3,310]

an editor capable of directly operating on the pages displayed by the browser thereby allowing the user to work on a functional application during development [figure 1,110].

Regarding claims 2-4 see previous rejection.

5. A software development system as in claim 3, wherein the set of components on pages generated from a single page template can vary for different requests of the same page template [Massena 5: 35-37].

Claim 6.

Massena anticipates, a software development system for use in a data network which couples a server computer to a client computer, wherein the client computer includes a first software program for generating a request for one- or more pages from the server computer and for displaying pages, and wherein the server computer includes a second software program for receiving and processing the request from the client computer, for generating and storing pages, and for transmitting pages to the client computer in response to requests, the server computer further comprising:
(abstract)

a data store; [Massena 8: line 7(registration, Database), 9: 55-60, *also see persistence* [et seq].

a plurality of components residing in the data store, including components that react interactively on user input by executing instructions on the server; [Massena 8: 1-10, 3:33-37, for user input].

a plurality of page templates residing in the data store, at least one page template having at least one selected component incorporated therein; and[Massena 5: 25-30,see repeatable web page contents and component objects]

a server processor controlled by a third software program, said program providing instructions for selecting a page template based on the request from the client computer and instructions for generating a page from the page template for

transmission to the client computer.[see Massena 3: 15-20 for software program and fig1].

Regarding claims 7-8 see previous rejection.

9. A method for generating documents for display by a browser using components that react interactively on user input by executing instructions on a server, comprising the following steps for execution on the server upon a page request:

assigning a unique identifier to at least one of the interactive components; and

[Massena 7: 60-67 - 8: 1-10]

embedding the unique identifier into a generated page. [Massena 7: 60-67 - 8: 1-10, interpreted as design time control feature, which builds pages

10. The method of claim 9, further comprising storing data on the server representing at

least one of the components. [Massena 11: 58-60, storing data would be inherent in a server which hosts web pages for clients, however also see persistence et seq.]

11. The method of claim 10, further comprising:

analyzing the request sent by the browser for unique identifiers; and and [Massena 7: 60-67 - 8: 1-10] see Query Persistence Interface

calling a function for the interactive components referenced by at least one of the unique identifiers contained in the request. [Massena 7: 60-67 - 8: 1-10]

Regarding claim 12-21 see previous rejection.

22. A computer running an application to develop and maintain applications

using a web browser, comprising:

an editor operable within the web browser for inserting, deleting, and modifying components on document templates [fig 1, 110]

and a page generator for processing document templates and for generating documents from the document templates that are understandable by the web browser [fig 3, 310].

23. A computer as in claim 22, wherein the editor operates functional applications in an edit mode permitting editing directly in the web browser [Massena 7: 30-35].

24. A computer as in claim 23 wherein at least one of the components can react on subsequent page requests containing user responses by executing selected instructions [3:33-37].

25. A computer as in claim 24, wherein the computer further comprises: a store of component classes, each component class implementing one component kind; and a parser able to detect components marked on page templates [Massena 11: 50-52].

wherein the page generator works upon a page request using component classes to generate browser code; and wherein the editor is capable of showing a menu of components for insertion into the page templates [Massena 5: 50-55, see property browser].

Regarding claim 26-30 see previous rejection.

31. The system of claim 30, wherein the scripts are generated specifically for the second document and encapsulate information which is incorporated into the first document [4:30-35].

32. The system as in claim 26, wherein the features incorporate information regarding the first document into the second document [4:30-35].

33. A system as in claim 32, wherein the information incorporated into the second document is used on the client computer in order to send change requests for the first document to the server [1:52-54].

41. A software development system as in claim 1, the editor comprising a client part for execution on the client computer [fig1,110].

42. A software development system as in claim 41, wherein the client part comprises instructions that are automatically downloaded from the server prior to editing [11:57-60].

43. A system as in claim 26, additionally comprising at least one script for automatic download to the client that works in cooperation with the second document to permit editing of the first document [7:36-44].

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 34-40,44-81 are rejected under 35 U.S.C. 103(a) as being unpatentable over Massena et al in view of Pinard et al USPN 5,940,834 hereinafter Pinard.

Regarding claim 34 Massena discloses a method for generating a page for display in a browser from a page template containing components, [fig 1]. Massena doesn't explicitly disclose identifying a

component class of the component, and storing a first object of the component class representing the component. However Pinard does disclose identifying a component class and means of storing objects of the component class [5:55-60]. Therefore one of ordinary skill in the art at the time the invention was made would have been motivated to modify Massena with Pinard to implement the instant claimed invention because, classifying templates and storing them improves reusability.

35. The method of claim 44, further comprising calling a method of said component class to generate browser code, said method being the constructor [Massena 5: 58-62, see initialize and instantiate, for constructor].

36. The method of claim 34, further comprising, for all components having a name attribute, looking up the component object in session memory based on said name attribute [Pinard, 6:20-25]

37. The method of claim 34, further comprising, for at least one component kind, for all components denoted on the page template having said component kind;

generating a unique identifier; [Pinard, 6:20-30, see file names]

assigning said unique identifier to said object, and embedding said unique identifier into the browser code [Pinard, 6:20-30, html code]

38. The method of claim 37, further comprising: inserting objects for the components of at least said component kind into a list of listening components; working through all objects stored in the list of listening components whose unique identifier occurs inside a name in the form data set; and calling a method of at least one of these objects [6:23-25, see database].

Regarding claim 39 - 40 see previous rejection.

44. The method of claim 34 wherein storing an object comprises creating a new object as necessary [Pinard, 2:4-5].

45. The method as in claim 34 wherein components are denoted on page templates using tag syntax [Pinard, 2:4-5].

46. The method as in claim 45 wherein the tag name identifies a component class [2:18-25].

47. The method as in claim 36 wherein components are denoted on page templates using tag syntax, wherein the tag name identifies a component class [2:18-25, see web page template].

48. The method as in claim 36 wherein the component object, if found, is reused to store the first object [Pinard, see retrieve, and database 2:5-15].

49. The method as in claim 36 wherein in case a component has a name attribute but no component object is found a new object is created and stored under said name in session memory [Pinard, see member specific 2:5-15].

50. The method as in claim 49 wherein new objects are created for all components not having a name attribute [Pinard, see member specific 2:1-25].

See claim 34 for reasoning.

52. The system of claim 51, wherein components include fourth program instructions

including steps to generate browser code prior to transmission to the first software program [fig1].

53. A system in claim 52 running on a data network, coupling a server computer and a client computer, the first program running on the client computer, the second program running on the server computer [fig1].

54. A system in claim 52 wherein second documents are HTML pages with embedded scripts [fig 7].

55. The system of claim 52, wherein the edit function includes adding a component to a document template, removing a component from a document template, and modifying attributes of a component on a document template[fig 3]..

Regarding claim 56, see figure 3.

57. The system of claim 56, wherein the generated document includes, if requested in edit mode, edit features for interpretation by the first software program [Massena, figure 1].

58. The system of claim 56 further comprising instructions to allow the user to click on the generated page to select items to perform edit functions on [Massena figure, 110].
Regarding claim 59 see claim 34 for reasoning.

60. The software development system of Claim 59 running on a data network, which couples a server computer and a client computer, the document generator running on the server computer the editor at least partly

running on the client computer[Massena, figure].

61. The software development system of claim 60, wherein the document generator further comprises fourth instructions for execution during document generation to collect edit information for use by the editor[fig1, 110].

62. The software development system of claim 60, wherein the editor uses a web browser for displaying said view [Massena, fig1, 110]

63. The software development system of claim 60, able to automatically repeat requesting the document generator to process the dynamic web document if required [fig 1, 110 see request].

64. The software development system of Claim 59 further comprising a plurality of components marked on the dynamic web document, components including instructions for use by the document generator to generate browser code [Massena, fig 5, 510].

65. The software development system of claim. 64, wherein the editor uses a web browser for displaying said view [Massena, claim 22]

66. The software development system of claim 64, wherein modification functions include insert of a component, delete of a component, and modify attributes of a component [Massena, claim 20]

67. The software development system of claim 59, wherein said view looks, except for editing features, similar to the end-user view of the generated document
[Massena, claim 22, see display runtime]

68. The software development system of claim 59, wherein the document generator further comprises sixth instructions to collect edit-information for use by the editor, said sixth instructions for execution during document generation [Massena, fig 5, 510].

69. The software development system of claim 68, wherein the editor uses the edit Information to correctly modify the dynamic web document [Massena, claim 20]

70. The software development system of claim 69, further comprising a plurality of components marked on the dynamic web document, wherein the edit-information comprises position information on the components contained in the document template .

71. The software development system of claim 59, wherein the editor uses a web browser for displaying said view [Massena, claim 20].

72. The software development system of claim 71, wherein first instructions comprise seventh instructions for initiating a reload in the browser [Pinard,2:1-20].

73. The software development system of claim 59 the editor program further comprising eighth instructions to display information on at least one element of the dynamic web document, that is replaced during document generation, without requesting the document generator to regenerate the generated document [2:10-15].

74. As applied in claim 34, pinard further discloses A software development system for document templates that are intended for transformation into generated documents for display by a first software program, the first software program including first instructions for generating a document request to obtain at least one generated document and for displaying the generated document, comprising: a

plurality of components, that include instructions to generate browser code prior to transmission to the first software program, an editor capable of performing edit functions on maintaining components document templates, the components capable to cooperate with the editor,

a plurality of document templates having components denoted thereon, and a document generator comprising second instructions to, upon a document request, generate generated documents from document templates for display by the first software program wherein the set of components on the generated document can vary for different document requests for the same document template [pinard, 2: 1-25].

75. The software development system as in claim 74, wherein edit function comprises adding a component, modifying a component, and deleting a component [pinard, 2: 1-25, see creating and replacing].

Regarding 76 see reasoning in claim 36.

77. The software development system of claim 74 running on a data network, which couples a server computer and a client computer, the document generator running on the server computer the editor running, at least partly, on the client computer [Massena, figure 1.

78. The software development system as in claim 74, wherein a component, that can react interactively on subsequent document requests, can be excluded from the generated document [2:33-36, see requests from requesting unit].

79. The software development system as in claim 78 further comprising third instructions to prevent excluded components from reacting on subsequent document requests [2:33-36].

80. A software development system as in claim 79, third instructions comprising fourth instructions to, upon a first document request, store information in session memory on all components, that are present on the generated document, and fifth instructions to, upon subsequent document requests, only react on components that have been remembered in session memory thereby avoiding tampering with excluded components on the side of the first program [2:33-36, interprets this as response to request, see requesting unit].

Regarding 81 see reasoning, in claim 78.

82. A software development system as in claim 74 the editor able to provide an editable view taking the varying set of components into account [Massena, fig1 also see claim 22].

Regarding claim 83 see reasoning in claim 78.

84. A software development system as in claim 74 wherein the generated document contains more components than the document template for at least one document request [Pinard, 2: 1-15].

85. The software development system as in claim 74, wherein multiple instances of a third component denoted on the document template can be included

in the generated document [Massena 3:44-45, see instantiate].

Regarding claim 86 see claim 37 for reasoning.

87. A software development system as in claim 74, wherein at least one document template has a fourth and a fifth component denoted thereon in a way that the fourth component contains the fifth component, the fourth component containing ninth instructions to decide about how many instances of the fifth component are included into the generated document [Pinard, 4:57-60]

88. A software development system as in claim 74 the editor able to provide an editable view that include multiple instances of components similarly as the final application.
[Pinard, 4:57-67]

89. A software development system as in claim 74 wherein at least one sixth component includes tenth instructions to display the sixth component, ninth instructions being used to display the sixth component during editing as well as during normal use of the component [Massena, claim 22 for display].

90. An editor for use with a web browser, the editor allowing the user to edit a document displayed by the browser, wherein clicking on said document displayed in the browser window initiates editing functions, and scripts contained in said document staying functional, the editor comprising a first software program for execution within the browser providing the user interface of the editor [Massena, fig1, 110].

91. The editor as in claim 90 using at least two windows, a first browser window displaying said document and a second window for displaying information on an element contained in said document [Massena, claimm22].

92. The editor in claim 90 further comprising a second software program for modifying documents in cooperation with the first software program[Massena, claim 20, and fig1,110].

93. The editor as in claim 92 further comprising a third program for transforming the document into a generated document thereby adding editing features, the browser displaying the generated document looking similar to the original and. interpreting the editing features [claim 22].

Regarding claim 94, see claim 37 for reasoning.

95. The editor as in claim 94 wherein the browser together with the first software program is running on a client computer connected to a server computer via a data network, wherein the second and the third software program run on the server computer [Massena, fig 1].

96. The editor in claim 90 wherein links contained in said document stay functional allowing the user to browse and edit at the same time [7:1-5, see dynamic].

Regarding 97 see claim 34 for reasoning.

Regarding 98 see reasoning in claim 87.

99. The system of claim 98, further comprising a plurality of document templates residing in the data store, at least one of the document templates having at least one second component denoted thereon [pinard,2:1-15].

Regarding claim 100 see claim 45 for reasoning.

Regarding claim 101 see claim 47 for reasoning.

102. The system of claim 101, wherein third components implementation scheme includes logic to decide how often to insert the first component into the generated document [Pinard, claim3]

Regarding claim 103 see claim 102 for reasoning.

Regarding claim 104 see claim 37 for reasoning.

Regarding claim 105, see claim 78 for reasoning.

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106. The system of claim 105, wherein fifth instructions call third instructions only if first component was previously displayed, [Massena, claim 22, for display].

107. The system of claim 98, wherein fifth program instructions include eighth program instructions to analyze said data for user interactions with multiple components and to call third program instructions of multiple components as necessary [Pinard,2:1-15].

109. The system of claim 98, further comprising eleventh program instructions for storing a data object in session memory representing at least one component instance included in a generated document, said eleventh program instructions for execution while dynamically generating a document [Pinard, abstract]

110. The system of claim 109, wherein third program instructions are encapsulated in a method of data objects, fifth program instructions including twelfth program instructions for identifying the data object that represents a component instance the user interacted with and for calling said method of said data object as necessary [fig1,140, and 125, requesting between user and database].

Regarding claim 111, see claim 85 for reasoning.

Regarding claim 112 see 37 for reasoning.

Regarding claim 113 see claim 37 for reasoning.

Regarding 114 see claim 34 for reasoning.

Regarding 115 see Massena, fig1, 110.

Regarding claim 116, see claim 115 for reasoning.

Regarding claim 117, see Massena, Fig 1 requesting between server and client.

Regarding claim 118 see claim 36 for reasoning.

Regarding claim 119 see Massena, claim 22 for reasoning.

Regarding claim 2 see Massena, fig1.

Regarding claim 121, see figure 1.

Regarding claim 122 see claim 121.

Regarding claim 123 see claim 36.

Regarding claim 124 see Massena, claim 22

Regarding claim 125 see claim 124 for reasoning.

Regarding claim 126 see claim 22 for reasoning.

Regarding claim 127, [see pinard 2:1-25]

Claim 108 is rejected under 35 U.S.C. 103(a) as being unpatentable over Massena et al as applied in claim 107 in view of Pinard et al USPN 5,940,834 hereinafter Pinard and in further view of Leshem et al USPN 6,341,310.

Regarding claim 108 Massena as modified discloses all the claimed limitations as applied in claim 107. Massena as modified doesn't explicitly disclose checking for errors. However, Leshem does disclose this limitation [22:65]. Therefore it would have been obvious to one ordinary skill in the art at the time the inventions was made to modify Massena as modified with Leshem to implement the instant claimed invention because, it would have made the system more efficient.

Response to Arguments

Examiner has evaluated applicant's arguments of 3/19/02 correspondence which has been fully considered Applicant's arguments with respect to claims 1-127 have been considered but are moot in view of new grounds of rejection.

Conclusion

This action is made Final Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). *Necessitated by Amendment.*

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action. see MPEP § 706.07 (a).

Correspondence Information

Any inquires concerning this communication or earlier communications from the examiner should be directed to Chuck O. Kendall who may be reached via telephone at (703) 308-6608. The examiner can normally be reached Monday through Friday between 8:00 A.M. and 5:00 P.M. est.

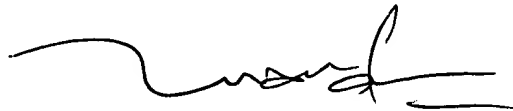
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Greg Morse can be reached at (703) 308-4789.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

For facsimile (fax) send to 703-7467239 official and 703-7467240 draft

Chuck O. Kendall

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**TUAN Q. DAM
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